131007

NGB 3-76

NATIONAL GUARD BUREAU MANPOWER STUDY



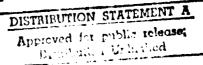
Survey of North Carolina National Guard on Tuition Assistance Programs

Author: Dennis P. Levin NOV 1975



DEPARTMENTS OF THE ARMY AND THE AIR FORCE NATIONAL QUARD BUREAU

NEPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. B. DEPARTMENT OF COMMERCE
SPRINGFIELD VA. 22141



20000920137

U.S. DEPARTMENT OF COMMERCE National Technical Information Service

AD-A023 971

SURVEY OF THE NORTH CAROLINA NATIONAL GUARD ON TUITION ASSISTANCE PROGRAMS

NATIONAL GUARD BUREAU

NOVEMBER 1975

Reproduced From Best Available Copy

20000920137

SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

REPORT DOCUM	READ INSTRUCTIONS BEFORE COMPLETING FORM				
REPORT NUMBER	2. GOVT ACCESSION N	3. RECIPIENT'S CATALOG NUMBER			
NGB-3-76					
TITLE (and Subtitle)		5. TYPE OF REPORT & PERIOD COVERE			
SURVEY OF THE NORTH	CAROLINA NATIONAL GUARD	Final 1975			
ON TUITION ASSISTANCE	E PROGRAMS	6. PERFORMING ORG. REPORT NUMBER			
AUTHOR(s)		8. CONTRACT OR GRANT NUMBER(a)			
CPT Dennis P. Levin					
PERFORMING ORGANIZATION NAME		10. PPOGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS			
Office of the Adjutar	nt General	COME WOOD ON!! NUMBERS			
PO Drawer 26268 Raleigh, NC 27611					
CONTROLLING OFFICE NAME AND		12. REPORT DATE			
NATIONAL GUARD BUREAU					
Department of Army ar		13. NUMBER OF PAGES			
Washington, DC 20310] RESS(II dillerent from Controlling Office)	15. SECURITY CLASS, (of this report)			
. MONITORING AGENCY NAME & ADDI	·				
. MONITORING AGENCY HAME & ADDI	· · · · · · · · · · · · · · · · · · ·				
S. MONITORING AGENCY NAME & ADDI	· · · · · · · · · · · · · · · · · · ·				
. DISTRIBUTION STATEMENT (of this)		15. DECLASSIFICATION/DOWNGRADING SCHEDULE			
DISTRIBUTION STATEMENT (of this)		15. DECLASSIFICATION/DOWNGRADING SCHEDULE			
Approved for public R	Report) Release, distribution unl	18e. DECLASSIFICATION/DOWNGRADING SCHEDULE			
Approved for public R	Report) Release, distribution unl	18e. DECLASSIFICATION/DOWNGRADING SCHEDULE			
Approved for public R	Report) Release, distribution unl	18e. DECLASSIFICATION/DOWNGRADING SCHEDULE			
Approved for public R	Report) Release, distribution unl	18e. DECLASSIFICATION/DOWNGRADING SCHEDULE			
Approved for public R	Report) Release, distribution unl	18e. DECLASSIFICATION/DOWNGRADING SCHEDULE			
Approved for public R	Report) Release, distribution unl	15e. DECLASSIFICATION/DOWNGRADING SCHEDULE			
Approved for public R	Report) Release, distribution unl	15e. DECLASSIFICATION/DOWNGRADING SCHEDULE			
Approved for public R	Report) Release, distribution unl	18e. DECLASSIFICATION/DOWNGRADING SCHEDULE			
Approved for public R DISTRIBUTION STATEMENT (of the oil SUPPLEMENTARY NOTES	Report) Release, distribution unl betract entered in Block 20, if different fi	imited **Report** **Report** **The control of the control of th			
Approved for public R OISTRIBUTION STATEMENT (of the oil SUPPLEMENTARY NOTES	Report) Release, distribution unl betract entered in Block 20, if different h	imited Report)			
Approved for public R Approved for public R DISTRIBUTION STATEMENT (of the of SUPPLEMENTARY NOTES KEY WORDS (Continue on re-rece side Netional Guard Bureau National Guard	Report) Release, distribution unl betract entered in Block 20, if different h	imited Report)			
Approved for public R DISTRIBUTION STATEMENT (of the all SUPPLEMENTARY NOTES KEY WORDS (Continue on reserve side Nellonal Guard Bureau	Report) Release, distribution unl betract entered in Black 29, if different fi	imited Repert) Youth			

A random sample of members of the North Carolina National Guard was surveyed regarding the acceptability of a tution assistance benefit as an incentive to remain in the Guard. Variables studies included career status, age, and educational level. A total of 51 respondents answered a variety of questions pertaining to tuition assistance. Data was analyzed using the Fischer "t" test and Chi-Square methods, depending on the nature of the data from each question, to determine if significant variations existed between the major variables. It was found that tuition assistance would be welcomed within all

categories studied with significantly higest intent among career members of he Guard. Age and educational level were found to be of little consequence i redicting acceptance of tuition assistance.						
adoptions of the						
•						
•						
•						
			`	,		
			,			
•						
•						



DEPARTMENTS OF THE ARMY AND THE AIR FORCE NATIONAL GUARD BUREAU WASHINGTON, D.G. 20072

2 8 DEC 1975

NGB-P

SUBJECT: Research Studies, Surveys and Reports in Support of Planning

The Adjutants General of all States, Fuerto Rico, the Virgin Islands and the District of Columbia

- 1. At our 97th General Conference in Seattle, the principal subject of my address was long range planning. In the weeks since the close of the Conference, I am sure that each of you has had a chance to give this subject some consideration. Although the National Guard has been recognized as being less expensive than active forces by the Congrass and the Department of Defense, we are constantly being challenged at all levels to justify our operations. We must be able to do a better job of planning, not only for this year, but also for three, five and ten years from now.
- 2. As an initial effort of National Guard Bureau planning, I have established the National Guard Bureau Research Advisory Committee to initiate the NGB planning program (Inclosure 1). This committee is working closely with our advertising agency. It will also use other outside, independent firms to conduct part of the required research, however, expertise within the National Guard will not be ignored. Of first priority for the committee is the preparation of a program for the current fiscal year. This program will be designed to support the recruiting and retention efforts of the National Guard in the most economical manner, and, at the same time, establish a data base from which long-range national, state and unit programs can logically be developed. I expect this effort to be an engoing program and modifications to it will be made as a result of well developed research.
- 3. To assist us in compiling data concerning the market we have for our product, the National Guard, we need your help. In the past, I have noted that many states, units and individuals have conducted attitudinal surveys covering potential enlistees, prior service personnel and current members of the National Guard. Unfortunately, much of this information is not filed in a manner that it can be reviewed by others engaged in similar research projects. I would appreciate it if by the 30th of January 1976 you would send copies of available surveys to the Research Advisory Committee for review and consideration for inclusion in the data files. A bibliography of these and other pertinent studies will be prepared and forwarded for your use.

Incl

LA VERN E. WEBER Major General, USA Chior, National Guard Bureau

iii

THE NATIONAL GUARD BUREAU RESEARCH ADVISORY COMMITTEE

COL Joe E. Burke, Chairman

Chief, Office or Policy and Limison, NGB

Dr. Ruth King

Chief, Office of Equal Opportunity, NGB

COL Andrew Wolf

Chief, Office of Public Affairs, NGB

COL James Savey

Chief, Army Personnel Division, NGB

COL Robert E. Stevens

Chief, Air Personnel Division, NGB

COL Bruce Jacobs

ARNG Representative

Army Reserve Forces Policy Committee

COL Philips Gordon

Chief, Human Resources Adjutants General School

Ft Benjamin Harrison, Indiana 46216

COL Homer R. Ward, Jr.

Executive Director
NGB Research Advisory Committee

Ex Officio Members

Mr. D. Parke Gibson

Chairman
D. Parke Gibson International, Inc.
475 Fifth Avenue
New York, New York 10017

Mr. Harry Dorsey

Agency Representative W. B. Doner & Co. 2305 North Charles Streat Baltimore, Maryland 21218

Meiling Address:

NGBRAC

Room 701 Columbia Blog 5600 Columbia Pike Falls Church, Virginia 22041

Telephone:

756-1720

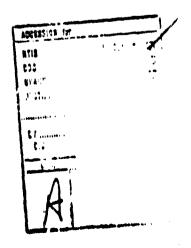
PREFACE

This study was undertaken as a result of a growing interest within the North Carolina National Guard to provide an incentive which would both retain personnel and develop their proficiency. Tuition assistance has long been assumed to be such an incentive, however with very little hard evidence to support or deny it. As such a benefit is not available through federal funding, each of the fifty-three separate militias must seek appropriations from their supporting states or territories. Fresh evidence is, therefore, required by each militia to justify such a request for funds. It is within this context that the following study was set forth.

The study provided the prime evidence to support an appropriation for tuition assistance from the North Carolina State Legislature. In addition, the study has received national recognition as a supporting document for a similar federal program, now under consideration.

Grateful acknowledgment is extended to the South Dakota Mational Guard for providing a similar, unpublished study to be used in conjunction with this one. Further acknowledgment is extended to Mrs. Freda J. Shelton, whose dedicated assistance in preparing the survey and occupiling the results added immeasurably to its accuracy and timely completion. Finally, grateful appreciation is proffered to my wife, Peggy, whose proof-reading ability is exceeded only by the author's proponalty to make it necessary.

Dennis P. Levia November, 1975



ABSTRACT

A random sample of members of the North Carolina National Guard was surveyed regarding the acceptability of a tuition assistance benefit as an incentive to remain in the Guard, Variables stylies included career status, age, and educational level. A total of 51 respondents answered a variety of questions pertaining to tuition assistance. Data was analysed using the Fischer "t" test and Chi-Square methods, depending on the nature of the data from each question, to determine if significant variations existed between the major variables. It was found that tuition assistance would be welcomed within all categories studied with significantly higher intent among career members of the Guard. Age and educational level were found to be of little consequence in predicting acceptance of tuition assistance.

TABLE OF CONTENTS

PR	''FA	CE.	_				_	_	_	_	_																_				_		Page
•••			•	•	•	•	•	٠	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AB	STR	AC.	7	•	٠	•	٠	•	•	•	•	•	•	•	• (•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	11
IN	TPO	DU	ודג	C	•	•	•	•	•	•	•	•	•	, (•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1
	Ba								_	_	-		-				-	-	-	-	_	-	_	•	•	•	•	•	•	•	•	•	1
	Pro				-	•	-	_	-	•	-	•	-		•		-	•	•	-	•	-	_	_	•	•	-	_	•	•	•	•	1
	Ob	-			-	•	-	-	•	_	-	-	_				-	•	-	-	•	-	-	-	•	-	-	_	•	-	•	•	2
	UU,	J u (•	•	•	•	•	•	•	•	•	•	•	, ,	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	~
RE	VIE	1 (F	L	T	:Ru	ıĦ	IR	2	•	•	•	•	•	•	, ,	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3
HY	POT	E S	319	}	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5
HE.	THO!	201	OG	Y	•	•	•	•	•	•	•	•	=	•	•	•	•	•	•	•	٠	•	•	•		•	•	•	•	•	•	•	6
	Yaz			-		-	•	-	•	-	-	-	-	_			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	6
	0p																														•	•	6
	Sal																														•	•	6
	Int																												•		•	•	7 7
	DE.	-	w	**	-	-	QI:		•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•
DAT	CA A	lka	IJ	SI	8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• ,	•	•	•	17
DIS	CUS	IE	NO		•	•	•	•	•	•	•	•	•	•	•	•	•) (•	•	•	•	•	•	•	•	•	•	•	•	•	•	22
SUP	Plat	ľ	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•) (•	•	•	•	•	•	•	•	•	•	•	•	•	•	29
CO N	cm	31	HC		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	30
imi	LIC	AT	IO	18	P	DR	F	UT	UR	I	RI	S	A	RCI	H	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	31
Par	ire	ЯC	1 5		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	,	•	32
a PP	end	IX	A																														
	EXC	ER:	PT!	3 (7	80	שכ	TH	פ	AX.	UI	'A	87	U	Y	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	A1
APP	END	IX	3																												,		
	HOR	TH	C	LIX.	L	[NJ		SU:	RV.	ΕY	A	ND) C	Iα	ÆF	1	Œ	H	K.	₹ ,	•	•	•	•	•	•	•	•	•	•	•	•	DI

APPENDIX C	
ANALYSIS OF DATA, SOUTH DAKOTA SURVEY	CI
APPENDIX D	
CALCUATIONS MORTH CAROLINA SIRVEY	DI

INTRODUCTION

Background

In 1972, the Acting Secretary of Defense, Mathan Brodsky, stated that,

With an all-volunteer force a possibility in the near future, the military wants to expand all its educational programs. One reason for this is to attract volunteers and another is because the armed forces feel they have a minsion to upgrade their personnel.

The National Guard has historically been an all volunteer force. During the Vietnam era, it provided a viatle alternative to active ailitary service and the draft. As such, there was no problem in obtaining qualified volunteers in large numbers. Further, the overall educational level of the young recruits was the highest ever, and the need for educational programs to recruit or upgrade personnel was negligable.

Since the demise of the draft, however, the picture has changed considerably. The lines of eager volunteers has shrunk and the overall educational level has been reducing as Vietnam ora recruits leave and lower standards are used to keep strength figures high. As a result, an interest has developed in a number of states regarding the incorporation of educational benefits for members of the Guard. The consensus has seemed to be that such benefits are a significant incentive to recruitment and retention.

Problem

Do educational benefits provide a viable incentive for recruiting and retention in the National Guard, and if so, to whom do they most apply?

While much has been written regarding educational programs in the military and large expenditures have been made annually to provide educational benefits, there exists a dearth of information on the actual effectiveness of educational benefits as incentives to enlist or remainst.

Purpose

The purpose of this paper is to examine tuition assistance as a retention factor in the National Guard.

Objectives

The objectives of this paper are as follows

- 1. To examine the probable usage of tuition assistance by members of the North Carolina National Guard.
- 2. To differentiate between that usage with regard to the following demographic categories: age, career status, and educational level.

REVIEW OF LITERATURE

An article by Captain Anne L. Ducey in Change, April, 1972, entitled "Higher Education for the Hilitary", addresses the need for special educational programs for members of the armed forces. The article covers those programs which have developed in conjunction with civilian schools and tuition assistance benefits to servicemen. Her article emphasizes the large numbers of servicemen who have participated in these programs and speculates on the future role of the military in providing civilian education to its members.

A September, 1969 article by William Steif entitled, "G.I. Bill Pailing to Attract Vietvets," in College and University Eusiness discusses the relative failure of the Veterans Administration to attract recent veterans with educational benefits. The article cites the relatively higher educational level of veterans and the availability of jobs as the prime reasons why veterans are not returning to schools as they did after World War II and the Korean conflict.

"A Community College for the Air Force" in the Air Force in the Air Force

George L. Rose in "SOC, CCAF, SOC, CLEP, USAFI-Alphabet Soup Never Tasted So Good", Community and Junior College Journal, October, 1974 discusses the value of various educational programs for servicement. He describes the manner in which these programs function and

4

their intrinsic merits. He particularly emphasizes the value of educational programs in the military for recruiting purposes.

In 1974, the South Dakota National Guard conducted a study involving all its members to determine those incentives which most affect retention in their organization. The survey response was roughly 60% with over 2,550 respondents. While detailed statistical analysis was not performed, aside from raw figures and percentages, there appears a very strong indication that tuition assistance benefits are, in fact, a significant factor in retention. Excerpts from this study regarding educational incentives may be found in Appendix A of this paper. The author took the liberty of analyzing the data from this study using chi-muare tests to determine if any differentiation can be made between those with under six years of service (non-career) and those with over gix years of service (career) in their responses to certain questions. Significant differences (P=<.05) were found in responses to questions 17, 18, 19, 20, 21, 22, and 25. All of these questions examine the value of educational benefits to members of the South Dakota Mational Guard. Each provides the basis for certain questions used in this study which will be compared in the section on data analysis.

HYPOTHESIS

The availability of tuition assistance is a significant factor in promoting retention in the North Carolina Mational Guard, especially among the young, junior servicemen on his first enlistment, and among those with a lower educational level.

An incentive is a provide to falfill a need contingent upon evidence of a desired behavior. The fulfillment of the individual's need must be acceptable to the institution and the desired behavior must be acceptable to the individual if the two are to favorably interact. The need in this case is actually a spinoff of other needs, e.g., job security, promotion, status, financial security, etc. The med for education and the means to obtain it is here regarded as strong enough in a large enough group to make it worthwhile for the organization to make tuition assistance available on a wide scale in return for an extension of service obligation from those who accept.

Since the majority of persons attending school are under age 25 and also are generally non-career status, it is hypothesised that those represented in these categories would be most responsive to a tuition assistance benefit.

Further, past studies indicate that veterans of World War II and of the Korean conflich had lower educational levels then contemporary servicemen and subsequently took advantage of educational benefits in proportionately larger numbers than contemporary veterans. Hence, is follows that the higher one's educational level, the less likely one is to take advantage of a tuition assistance benefit.

METHODOLOGY

Variables

The independent variables in this study are: the suggestion that tuition assistance may be offered, age, time in service, and educational level.

The dependent variables are; one's willingness to extend one's military obligation in the National Guard, and one's ability to attend school.

Operational Definitions

Tuition assistance benefit: A monetary supplement provided by the State of North Carolina to defer the cost of tuition at an educational institution.

Retention: The voluntary extension of one's service obligation through active participation in the National Guard.

Career status: non-career; Guardssen with less than six years of military service; career, Guardssen with six or more years of military service.

Significance: The probability of acceptance of a null hypothesis is less than $\Re (P = .05)$.

Cample

The sample for this study was drawn from the 11,868 members composing the North Carolina National Guard. Of thems, 147 individuals were selected at random using the last two digits of their social security numbers. These subjects were asked to complete a questionnaire

within a 12 day time frame. 51 responses were received from these individuals, including representatives from all ages, ranks, career statuses, and educational levels. (The questionnaire and cover letter may be found in Appandix 8.)

Intervening Variables

Certain intervening variables are noted. These include the rapidity of response, the nature of the survey, job matiafaction, and family and poer pressure.

Data Collection

Level of education and age were collected from National Guard records; career status was determined by responses to question 1 of the survey. Questions 8, 12, 13, 14, 15, 16, and 17 were included to measure the extent and nature of interest in tuition are istance as a retention incentive. Questions regarding other retention incentives were included to be analyzed at a later date. Hence, only these questions pertaining to educational benefits were addressed in this study.

Question 1: How long have you served in the HG?

6 months or less
6 months or less
6 months - 1 year
1 - 2 years
7 2 -) years
7 4 - 5 years
8 5 - 6 years
6 -10 years
10 10 -20 years
6 More than 20 years
31 TOTAL

This data was then divided into two groups to indicate career status; those with less than 6 years of service, and those with 6 years or more of service.

- 35 Non-Career
- Career
- TOTAL 51

As age 25 tends to be the age at which a Guardspan decides whether or not to re-enlist in the National Guard, individuals were divided according to this age. Out of the 51 respondents:

- 28 were 25 years old or less, and
- 23 were 26 years old or more.
- 51 TOTAL

Individuals were divided into four categories according to their levels of education:

- 8 Non-High School Graduates
- 27. High School Graduates or General Educational Development (CED)
- 14 Some College
- 2 Colleg College Degrees

Question 8: Below is a list of twelve incentives. Please rank them according to their importance to you when considering continued particlepation in the Cuard. Place a one (1) next to the most important, a two (2) next to second most important, and so forth until the least important is number twelve (12).

Increased drill pay Shorter training hours Promotion when eligible Increased retirement benefits A re-enlistment bonus program Better training equipment less annual active duty for training Improved fringe benefits (exchange privileges, life insurance, medical benefits) Increase opportunities for civilian skill training Increase my awareness of the importance of Guard duties More realistic and useful training Free tuition at state supported schools

The following are numerical ratings given to tuition assistance, 1.0., free tuition at state supported schools:

NUMERICAL NATING GIVEN TO TUITION ASSISTANCE ON SCALE OF 1 to 12

BY YEARS OF SERVICE

Rating	# of Non-Career Respondents	# of Carear Respondents	Total
i	2	1	3
2	0	, S	2
3	4	0	4
4	1	0	1
5	Š	3	8
6	5	ā	5
7	3	2	5
å	í	1	2
9	3	2	5
10	2	2	i _k
11	i	3	4
12	6	<u>0</u> 16	<u>6</u>

HUMERICAL NATING GIVEN TO TUITION ASSISTANCE ON SCALE OF 1 to 12 BY AGE

Rating	# of Respondents Age 25 or Less	# of Respondents Age 26 or Nore	Total
1	1	2	3
2	Ö	2	2
3	2	2	4
Ĺ.	1	٥	1
4	4	4	8
6	4	1	5
7	3	· 2	5
8	ĭ	1	2
ģ	Ž	3	5
10	2	2	4
11	1	3	4
12	<u>5</u> 20	2 -	4

For analytic purposes, data by educational level was grouped into the following four categories: ratings 1-4 into group I, ratings 5-8 into group II, and latings 9-12 into group III.

NUMERICAL RATING GIVEN TO TUITION ASSISTANCE ON SCARE OF 1 to 12

BY EDUCATIONAL LEVEL

Rating	# of Non- High School Craduates	<pre># of High School Graduates</pre>	# with Some College	# with Col- lege Degree	Total
I	2	3	4	1	10
II	2	13	5	0	20
III	4	9	_5	_1	19
	8	25	14	2	49

Question 12: If your future plans include additional college or vocational education, do you intend to remain in the MG?

Do not plan additional education (A)

Plan to remain with unit assigned (B)

Would like to transfer to unit closer to
educational institute (C)

Would be attending school out of state (D)

Currently attending school (Z)

FUTURE PLANS BY YEARS OF SERVICE

Response	# of Mon-Career Respondents	# of Carser Respondents	Total
A	20	7	27
B	10	7	17
C	1	0	1
D	Q	0	0
I	<u></u> 4	0	. 4
	33	14	743

FUTURE PLANS

BY ACE

Response	Respondents 25 or Less	Respondents 26 or More	Intel
A	18	9	27
.3	5	12	17
C	1	0	1.
D	0	0	0
E	4	0	4
	29	21	49

FUTUES PLANS

BY EDUCATIONAL LEVEL

Response	# of Non- High School Graduates	# of high School Graduates	# with Some College	# with Col- logs Degres	Total
A	4	18	5	0	27
B	4	6	5	. 2	1?
C	0	0	Ĩ	0	1
D	0	0	0	0 .	0
B	0	2	2	0	. 4
	-3	26	13	2	7 0

Question 13: Would you attend further college or vocational courses if you were granted assistance from private or government sources?

- If 50% or more of tuition is paid (A)
 If up to 50% of my tuition is paid (B)
 If I receive free tuition in full (C)
 No (D)

ATTENDANCE IN FURTHER COLLEGE OR VOCATIONAL COURSES

BY YEARS OF SERVICE

# of Non-Career Respondents	# of Career Respondents	fotal
9	2	11
4	3	7
8	5	13
_13	-12	-23

ATTENDANCE IN FURTHER COLLEGE OR VOCATIONAL COUNCES

BY AGE

Response	# of Respondents Age 25 or Less	# of Respondents Age 26 or More	Total
A	6	5	11
В	4	3	7
C	5	8	13
a	12	6	18
	27	22	40

ATTENDANCE IN FURTHER COLLECT OR VOCATIONAL COURSES

BY EDUCATIONAL LEVEL

Response	# of Hon- High School Graduates	# of High School Graduates	# with Some College	# with Col- lege Degree	Total
٨٠	1	5	4	1	11
B	1	3	3	0	7
C	3	7	2	1	13
D	_3	12	_3	_ 0	18
	8	27	12	<u> </u>	749

Question 14: When your obligation expires, would you agree to continue in the Guard for two more years if the state paid for tuition and fees at a state school or an equal amount at a private school?

I would probably continue participation without this. (A)
Yes, this would convince me to continue. (B)
No. I would not continue. (C)

AFFECT OF TUITION ASSISTANCE ON RETENTION (Extension of Obligation) BY YEARS OF SERVICE

Response	# of Non-Carser Respondents	# of Career Respondents	Total
A	8	8	16
В	15	4	19
C	12	_ 0	_12
	35	12	47

AFFECT OF TUITION ASSISTANCE ON RETENTION (Extension of Obligation) BY ACE

Response	# of Respondenta Age 25 or Less	# of Respondents Age 26 or Nove	Total
A	6	10	16
В	11	8	19
C	_11	1	12
	28	19	67

AFFECT OF TUITION ASSISTANCE ON RETENTION (Extension of Obligation) BY EDUCATIONAL LEVEL

Response	# of Mon- High School Graduates	f of High School Graduates	# with Scme College	# with Col- legs Degres	Total
a	4	7	4	1	16
B	3	8	7	1	19
C·	_1	_2	_2	_ 0	127
	8	24	13	2	47

Question 15: Would you be willing to stay in the Guard as long as you were to receive 50% of your college or vocational tuition each somester from the state?

 Definitely (A)	
 Possibly (B)	
 Definitely not	(C)

AFFECT OF TUITION ASSISTANCE ON RETENTION (HALF TUITION) BY XEARS OF SERVICE

Response	# of Mon-Career Respondents	f of Carver Respondents	Total
A	7	11	18
D	19	2	21
C	9	_0	9
	35	13	41

AFFECT OF TUITION ASSISTANCE ON RETENTION (HALF TUITION) BY AGE

kesponse	# of Respondents Age 25 or Less	# of Respondents Age 26 or Nore	Total
A	4	14	18
B	15	6	21
C	9	0	_9
	28	20	EA

AFFECT OF TUITION ASSISTANCE ON RETENTION (HALF TUITION) BY FOUCATIONAL LEVEL

Response	# of Non- High School Craduates	# of High School Graduates	# with Some College	# with Col- lege Degree	Total
A	3	7	7	1	18
B	•	11	5	1	21
C	_1	7	_1	_ 0	_9
	6	25	73	-2	48

Question 16: If you were to receive 50% of your college or vocational tuition each essester, solely upon being an active member of the Guard, could you continue your education?

Definitely (A)
Possibly (B)
Not able to at this time (C)

Definitely not (D)

CONTINUANCE OF EDUCATION

BY YEARS OF SERVICE

Response	# of Mon-Career Respondents	# of Career Respondents	Total
A	3	5	8
B	16	2	18
C	11	6	17
D	4	_ 0	4
	3.5	13	47

CONTINUANCE OF EDUCATION

BY ACE

Response	# of Respondents Age 25 or Less	# of Respondents Age 26 or More	Total
A	1	7	8
B	11	7	18
C	11	6	17
D	4		4
	27	20	47

CONTINUANCE OF EDUCATION

BY EDUCATIONAL LEVEL

Response	# of Non- High School Graduates	# of High School Graduates	# with Some College	# with Col- lege Degree	Total
A	0	3	4	1 .	8
B	3	8 -	7	. 0	18
C	4	10	2	1	17
D	_ 0	4	0	<u> </u>	4
	7	25	13	2	47

Question 17: Obstacles to attending further college or vocational training include:

- Cost of tuition (A)
 Room and board (B)
 Family responsibility (C)
 Not interested (D)
 Do not want to leave remembers
- Do not want to leave present employment (3)
- Lack entrance requirements (F)
 Other (specify) (G)

OBSTACLES TO ATTENDANCE

BY YEARS OF SERVICE

Response	# of Non-Career Respondents	# of Career Respondents	Total
A	4	2	6
B	0	Ö	0
C	14	8	23
D	4	0	4
E	7	3	10
F	1	Ö	1
C	_3	_ 0	_3
	³³ 20<	T	723

OBSTACLES TO ATTENDANCE

BY AGE

Response	# of Respondents Age 25 or Less	# of Respondents Age 26 or More	Total
	,	4	6
<u>^</u>	Õ	0	0
В	12	10	22
C	12	0	4
D	4	1,	10
E	6	4	10
f	1	0	1
G	1		→ }
-	26	20	40

OBSTACLES TO ATTENDANCE

BY EDUCATIONAL LEVEL

Prisponse	# of Non- High School Graduates	# of High School Graduates	# with Some College	# with Col- legs Degree	Total
A B C D E F	1 0 4 0 1 1 0	1 0 13 4 7 0 0	3 0 5 0 2 0 -2	1 0 0 0 0	10

DATA ANALYSIS

QUESTION 8:

Ranking	Total Respondents	% Total Respondents	Non- Career	Years of % Non- Career	Service Career	g Career
1	· 3	6.1%	2	6.1%	1	6.3%
2	2	4.1%	0	0%	2	12.5%
3	4	8.2%	4	12.1%	0	CA
4	1	2.0%	1	3.0%	0	C%
5	8	16.3%	5	15.2%	3	18.83
6	5	10.2%	5	15.2%	Ŏ	C%
7	5	10.2%	3	9.1%	2	12.5%
8	2	4.1%	1	3.0%	1	6.3%
9	5	10.2%	3	9.1%	2	12.5%
10	4	8.2%	2	6.1%	2	12.5%
11	. 4	8.2%	1	3.0%	3	18.8%
12	<u>6</u>	12.2%	$\frac{-6}{33}$	18.25	16	0,5

	·	Ago %		%
Ranking	x ≤ 25	× 425	x.2 26	x≥ 26
1	1	3.8%	2	8.7%
2	0	0%	2	8.7%
2 3 4 5 6	2	7.7%	2	8.7%
4	1	3.8%	0	OS
5	4	15.4%	4	17.4%
6	4	15.4%	1	4.3%
7	3	11.5%	2	8.7%
7 8	ĩ	3.8%	1	4.3%
9	2	7.7%	3 ·	13.0%
10	2	7.7%	ź	8.7%
11	1	3.83	3	13.0%
12	5	19.2%	ī	4.33
•	26	-,	23	. 4 240

	lon	Educati							
% C	С	% SC	SC	% HS	HS	% NHS	NHS	Ranking	
50%	1	28.6%	4	12%	3	25%	2	1 2 3 4	1
0%	0	35.7%	5	52%	13	25%	2	5 6 7 8	II
50%	1	35.7%	5	36%	9	50%	4	9 10 11 12	111
	2		14		25		Ā		

The above charts depict the number of respondents and the corresponding percentages of responses for the total data and for each demographic category. The data derived from the tables concerning years of ser ice and age is analysed by means of Fisher "t" Tests; and, level of education by chi-square testing. See Appendix D for these calculations.

Question	12:			_		
Category	#	A ×	#	B ≰	*	C ≰
Total N = 49	27	55.1	18	36.7	4	8.2
Non-Care	er20	57.2	11	31.4	4	11.4
Career	7	50.0	7	50.0	0	0.0
x ⊈ 25	18	64.3	6	21.4	4	14.3
x} 26	9	42.9	12	57.1	0	0.0
NHS	4	50.0	4	50.0	0	0.0
нз	18	69.2	6	23.1	2	7.7
SC	5	41.7	5	41.7	2	16.6
C	0	0.0	2	100.0	0	0.0

The above chart indicates percentages of responses by demographic categories regarding Question 12. Chi-Square Tests were applied to responses to establish differentiation within each of the three main categories. See Appendix D for Calculations.

CUES	TTON	12.
LUE:	1 1 1 1 1	1 71

		Responses								
		A		В		C		D		
Category	#	%	#	×	#	*	ø	K		
Total N = 49	11	22.5	7	14.3	13	26.5	13	36.7		
Non-Career	9	26.5	4	11.8	8	23.5	13	38.2		
Career	2	13.4	3	20.0	5	33.3	5	33.3		
x \$ 25	6	22.2	4	14.8	5	18.5	12	44.4		
x ≥ 26	5	22.7	3	13.6	8	36.4	6	27.3		
nhs	1	12.5	1	12.5	3	37.5	3	37.5		
нз	5	18.5	3	11.1	7	25.9	12	44.4		
SC	4	33.3	3	25.0	2	16.7	3	25.0		
C	1	50.0	0	0.0	1	50.0	0	0.0		

The above table gives the percentages for each category responding to Question 13, regarding the amount of tuition assistance needed for further college or vocational attendance. Again, see Appendix D for Calculations. Chi-square tests were utilized to analyze the data.

QUESTION 141

	A			_ 3		6	
Category	ø	*	ø	5	ø	K	
Total N = 47	16	34.0	19	40.4	12	25.5	
Kon-Carser	8	22.9	15	42.9	12	34.2	
Carver	8	66.7	4	33.3	0	0.0	

x \$25	6	21.4	11	39•3	11	39.3
x ≥26	10	52.6	8	42.1	1	5.3
NHS	4	50.0	3	37.5	1	12.5
KS	7	29.2	8	33.3	9	37.5
SC	4	30.8	7	53.8	2	15.4
C	1	50.0	1	50.0	0	0.0

The above chart shows the results to question 14 concerning the affect of tuition assistance on retention. Chi-square tests were applied to the data to determine significant relationships between the variables. Calculations are in Appendix D.

QUESTION 15:									
		Певролаев							
		٨		В		C			
Catogory	•	*	•	. ≰	#	×			
Total N = 48	18	37.5	21	43.8	9	18.7			
Non-Career	7	20.0	19	54.3	9	25.7			
Carsar	11	34.6	2	15.4	0	0.0			
x \$25	4	14.3	15	53.6	9	32.1			
x ≥ 26	14	70.0	6	30.0	0	0.0			
RHR	3	37.5	4	50.0	1	12.5			
нэ	7	28.0	11	44.0	7	28.0			
90	7	53.8	5	38.5	1	7.7			
C	1	50.0	1	50.0	0	0.0			

The above chart indicates the percentages by category to the affect of a half tuition assistance benefit on retention. Chi-equare tests were also applied to this data. See Appendix D for the calculations.

QUESTION 16,		Responses						
Category	#	A %	#	B %	#	C %	#	D %
Total N = 47	8	17.0	18	38.3	17	36.2	4	8.5
Non-Career	3	8.8	16	34.0	11	-32.4	4	11.8
Career	5	38.5	2	15.4	6	46.1	0	0.0
x \$25	1	3.8	11	40.7	11	40.7	4	14,8
x ≥ 26	7	35.0	7	35.0	• 6	30.0	0	0.0
NH3	Ο,	0.0	3	42.9	4	57.1	0	0.0
НS	3	12.0	8	32.0	10	40.0	4	16.0
SC	4	30.8	7	53.8	2	15.4	0	0.0
C	1	50.0	0	0.0	1	50.0	0	0.0

The above table gives the percentages of responses to a Cuardaman's ability to continue his education given 50% of his college or vocational tuition each semester. Chi-square tests utilised are in Appendix D.

QUESTION 17:

Category	٨		В		C		D		E		7		G	
	#	*	N	*	#	A	#	*	#	\$	ø	×	ø	G %
Total N = 46	6	13.0	0	0.0	22	47.8	4	8.7	10	21.7	1	2.2	3	6.5
Mon-Career	2	7,7	0	0.0	14	42.4	4	12.1	7	21.2	1	3.0	3	9.1
Career	2	15.4	0	0.0	8	61.5	0	0.0	3	23.1	0	0,0	0	0.0
x 125	, 2	7.7	0	0.0	12	46.2	4	13.4	6	23.0	1	3.8	1	3.8
z 226	4	20.0	0	0.0	10	50.0	0	0.0	4	20.0	0	0.0	3	10.0
HHS	1	14.3	0	0.0	4	57.1	0	0.0	1	14.3	1	14.3	0	0.0
'HS	. 1	4.0	0	0.0	13	52.0	4	16.0	7	28.0	0	0.0	0	0.0
SC	3	25.0	0	0.0	5	41.7	0	0.0	2	16.7	0	0.0	2	16.7
C	1	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0

The above chart depicts the responses by percentage to the obstacles which would prevent a Cuardeman from continuing his education. Chi-square tests were applied to the data. Calculations are in Appendix D.

DISCUSSION

Questions on the questionnaire regarding educational benefits are numbers 8, 12, 13, 14, 15, 16, and 17 (see Appendix B). These are analyzed first as a whole and later to determine the affects of certain independent variables.

Responses to question 8, regarding the ranking of a tuition assistance benefit, ranked educational benefits nearly in the middle of twelve other possibilities with a mean score of 7.0 overall. In domparison to question 21 on the South Dakota survey, the North Carolina sample did not indicate as enthusiastic a response. This difference may be attributed to some inherent differences between the samples, or to the limited options provided in the wording of the South Dakota question.

The mean rating given by non-career Cuardamen was 7.0, while the mean rating for careerists was 7.1. A Fisher "t" test was performed on this data to establish whether any significant differences existed between these two categories (See Appendix D). It was determined that the differences were not significant.

A similar evaluation by age also established no significant differences between those 25 and under and those 25 and above. Nor was there a significant difference between those 35 and under and those 36 and above. Mean scores remained midrange on the scale for all groups.

Educational levels were broken down into four main groups: these with some high school; high school graduates; those with some sellegs; and college graduates. Scores on question 8 for these categories were

delineated into thirds as follows: 1-4, lower third; 5-8, middle third; and 9-12, upper third. Scores and categories were compared using a chi-square to determine any significant differences among the different levels. No significant differences were noted on this particular question.

While the wording in question 12 appears vague, it was meant to provide both an overt response and a covert indication of intent. It was felt that a direct question of intent to continue one's education would have been too abrupt. In order to determine whether further education was a possibility for consideration, the question was worded such that at first impression, the respondent would be concentrating on the value of transfering to another unit, rather than on the possibility of continuing his education. In this subtle way, the respondent did, in fact, indicate educational intent with minimal interference from insections. The overt response to question 12 allowed the unit commander some indication of the likelihood of an individual transferring to another unit as a result of educational pursuits.

Question 12 of the survey indicates that 55.1% of these respending do not plan additional education; 34.7% would stay with the unit assigned; 2% would transfer to a unit close to the school; none would attend school out of state; and 8.2% are currently attending at col. These responses indicate that if tuition assistance were offered, 44.9% of the Chard would possibly use it.

In further analysis, chi-square tests detected significant differences

(P = <.05) between career and non-career personnel on the South Daketa

study among those who would possibly go to school, with careerists
generally looking to remain in their unit and more press to include school

retention incentive. Responses indicated that 34% would re-enlist without tuition assistance; 25.4% would leave even if it were offered; and 40.4% would definitely remain contingent on tuition assistance. This indicated that if tuition assistance were offered, the Guard's retention rate should increase from 34% to 74.4%. The response to this question varied only slightly from actual rates of retention in North Carolina which presently run at 30%. The slight difference may be a function of the type of person most likely to respond to the questionnaire.

These figures approximate the response to the South Dakota study (question 17) which indicated an increase from 32% to 70% based on their survey. The consistency of these figures lends credence to the study's internal and external validity regarding this question.

A chi-square analysis of this question on the South Dakota study indicated, not surprisingly, that careerists are more prone to re-enlist without the benefit and non-careerists consider tuition assistance more of a factor in their decision. Similar results are noted in the North Carolina study. Age is also a significant factor, with older personnel more likely to remain in the Guard. Educational level again, was not a significant factor.

Question 15 was a measure of one's willingness to remain in the Guard based on receiving 50% of tuition costs. Responses indicate 37.5% of the Guard would definitely remain; 43.6% would possibly remain; and 18.7% would not remain. A similar question (# 25) on the South Dakota study indicates a significant difference between careerists and non-careerists in that careerists were most likely to remain overall. The same holds true on the North Carolina study. This is probably a function

in their future plans. No such differentiation was found significant on question 12 of the North Carolina survey, although there was some indication that most of the Guardsmen now in school are non-career.

However, a significant difference does exist in the Guard between those 25 years old and under, and those 26 and above, regarding question 12. A greater percentage of older personnel do not plan further education and less are currently attending. Further, more older personnel are willing to stay with their units if they would go to school. On the other hand, less younger men are willing to do the same. More younger een are actually in school at this time.

No significant differentiation could be made among different educational levels regarding question 12.

On question 13, regarding whether or not one would continue their education if funds were available, 22.5% indicated that it would require 50% or more of tuition to get them to continue; 14.3% required up to 50%; 26.5% required tuition in full; and 36.7% would not go regardless of the amount.

Analysis of the corresponding question on the South Dakota study (#19) indicated a significant difference between career and non-career personnel. The major differences were that careerists were less prone to attend further schooling and non-careerists were more likely to go.

A similar evaluation on the North Carolina study shows no real differences, with constant proportions responding on all possibilities. The came held true for age differentiation and educational levels.

Question 14 of the survey asked whether or not the individual would be willing to extend his or her enlistment if tuition assistance were available. This question sought to measure tuition assistance as a

of the evident likelihe od that a careerist will remain in the Guard without additional incentives.

Age is also a factor in question 15 in that those over 26, older personnel, are most likely to remain. No significant differences were noted between educational levels.

Question 16 asks whether receiving 50% tuition assistance is the prime factor in an individual's decision to further his education. Responses indicate that 17% definitely would continue their education; 38.3% indicate they might; 36.2% could not continue at present; and 8.5% definitely would not return to school. No question on the South Dakota study approximates question 16.

Analysis of data through chi-square tests indicate that career status is a factor with careerists more prone to continue their education with assistance, and non-careerists more undecided. Age is also a significant factor with older personnel more likely to return to school and younger personnel undecided. No differentiation can be made by educational level.

Question 17 referred to those factors an individual encounters which most interfers with future schooling. Responses indicate 1% are hindered by tuition costs; none by room and board; 47.7% by family responsibilities; 8.6% are simply not interested; 21.7% do not want to leave their present employment; 2.2% lack entrance requirements; and 6.5% indicate nothing is in the way. Analysis of responses in the South Dakota study (question 20) indicates generally similar responses, however with less variability. Further analysis indicates that career status affects every response with careerists feeling family responsibilities

and job restrictions more and non-carearists feeling tuition costs, roca and board, and disinterest proportionately more.

The North Carolina study indicates no significant differences by career status, age, or educational level. I aponses were proportionately the same in every category.

In the course of the survey, there were indications that variables other than these cited above may have been a factor. The wording of certain questions or specificity of responses resulted in some ambiguity and the necessity of eliminating portions of the data from the study.

The response of 31% of those surveyed is not considered exceptionally high or low for a mailed questionnaire. Future surveys may require a mandatory response; however, the context under which such assured responses would probably bias them greatly in that peers would generally be present at a drill or assembly where the questionnaire would be administered.

It should be noted that questionnaires which were returned early tended to favor tuition assistance while later responses nearer to the suspense date became more negative.

Responses indicate that while tuition assistance programs are a significant factor in retention, its influence is by no means limited by age, career status, or educational level. Such benefits would be well received by a wide variety of individuals of diverse desognaphic characteristics. Other characteristics, such as ear, race, religion, and occupation, were not tested due to a lack of representative respondents for each category or such diversity within a small sample that the data would have little meaning. The comparison of officers to

enliated personnel was not undertaken due to limited officer responses and the tendency of career status to exact a wider differentiation is response than level of employment.

SUMMARY

Of the questions asked in this survey, question 14 is the only one which suggests a consiteent beyond present obligations. Responses to it are most important overall. It is also of interest that career personnel and older personnel have a strong interest in taking advantage of educational programs and that younger personnel appear most undecided regarding future educational plans. In no question is educational level a factor. This indicates that requests for assistance should vary proportionately with relative educational levels in the Guard as a whole.

CONCLUSION

The hypothesis is partially acceptable in that the internal assistance is a significant factor in retention. However, differentiations by age and career status may have the reverse implications of those assumed. Educational level does not appear in any sense to affect response to educational benefits.

IMPLICATIONS FOR FUTURE RESEARCH

There is some indication that differences exist in the responses of North Carclinians from those of North Dakota to certain questions.

While certain questions were responded to in a generally like manner, each state would be well advised to conduct its own survey prior to establishing tuition assistance programs. More research is needed on the attraction of tuition assistance to warmer personnel and older personnel, in that it appears education is specifically desired by them. Similar studies are needed on non-military samples to determine whether tuition assistance is significant as a recruiting incentive.

REFERENCES

- "The Distribution of Education and the Distribution of Income," Economica, 41:387 (Nov. 1974).
- "Education Incentive Plans for Police," Urban Affairs Quarterly, 10: 197 (Doc., 1974).
- "Federal Funds: State Student Incentive Grants," American Education, 10:36 (Oct., 1974).
- "Incentive Pay Patterns in the Steel Industry," Monthly Labor Review, 97:75 (Aug., 1974).
- "Leadership in Dyadic Groups as a Function of Dominance and Inceptives", Sociometry, 36:561 (Dec., 1973).
- "The Nature, Industrial Experience and Economic Results of Schchekino's Incentive Scheme in Soviet Industry," Southern Economic Journal, 41:134 (July, 1974).
- "Symposium Articles--The Graduated Work Incentive Experiment Introduction,"

 Journal of Human Resources, 9:156 (Spring, 1974).
- "Whatever Happened to Performence Incentive Fees?" Institutional Invastor, 8:101 (June, 1974).

APPENDIX A

EXCERPTS OF SOUTH DAKOTA STUDY

		under 6 yrs	over 6 years	Total / I
16.	Would you re-emlist and continue y	our service in	the NG if	
	There continues to be no re-			
	enlistment bonus	130 (8)	424 (46)	554 (21)
	There was a re-enlistment bonus	(1 / 2)	20 (2)	77 (5)
	of \$50.00 per year There was a re-enlistment bonus	41 (3)	30 (3)	71 (3)
	of \$100 per year	159 (9)	93 (10)	252 (10)
	There was a re-enlistment bonus	139 (9)	32 (10)	232 (10)
	of \$200 per year	209 (12)	98 (11)	307 (12)
	There was a re-enlistment bonus	10) (11))0 (11)	307 (11)
	of \$400 per year	831 (49)	264 (29)	1095 (42)
	No, I would not continue	318 (19)	*00 (1)	328 (12)
		1688	919	2607
	GI bill regardless of your length of I would probably continue participation without this Yes this would convince me	293 (17)	532 (53)	825 (32)
	to continue	860 (51)	342 (37)	1202 (46)
	No I would not continue	529 (32)	40 (4)	569 (22)
18.	If your future plans include addition do you intend to remain in the NG?	inal colâme or	vocational educ	ation
	Do not plan additional education	876 (53)	433 (48)	1309 (51)
	Plan to remain with unit assigned	589 (36)	434 (48)	1023 (39)
W	Would you transfer to unit			
	Closer to educational institution Would be attending school out of	on 121 (7)	26 (*3)	147 (3)
	state	73 (A) 1659	899	79 (3) 2358
19.	Would you attend further college or			•
	granted assistance from private or g If 50% or more of tuition is paid		228 (24)	640 (25)
	If up to 50% of martuition is paid		93 (10)	292 (11)
	If I receive free tuition in full	520 (31)	257 (28)	777 (30)
	No	548 (32)	243 (38)	891 (34)
		1690	- 511	7801

		under 6 years	over 6 yrs	Total (%)
20.	Obstacles to attending further coll	lege or vocations	il training inc	1ed e:
	Cost of tuition	527 (31)	204 (22)	713 (28)
	Room and Board	46 (3)	11 (2)	57 (2)
	Pamily responsibility	386 (23)	298 (31)	684 (27)
	Not interested	261 (15)	115 (13)	376 (15)
	Do not want to leave present	(,	()	0.0 (20)
	omployment	392 (24)	270 (30)	669 (26)
	Lack entrance requirements	43 (3)	12 (2)	55 (1)
		1655	909	2564
21.	If you were to receive 50% of your semaster, solely upon being an active continue to actively participate in	e member of the	Guard, would y	
	It is the most significant factor		126 (14)	423 (16)
	It is one of the most significant		213 (24)	667 (26)
	It is of some significance	379 (23	217 (25	596 (23)
	It is of little or no	4-5		, , , , , ,
	eignificance	550 (32)	329 (37)	879 (34)
22.	If you were to receive 50% of your semester, solely upon being an act continue your education?			
	Definitely	361 (21)	158 (18)	519 (20)
	Possibly	654 (39)	370 (42)	1024 (40)
	Not able to at this time	366 (23)	232 (26)	598 (23)
	Definitely not	290 (17)	121 (14)	411 (16)
		1671	581	2552
23.	When your present obligation expire NG if an appropriately reduced rati rather than the present age of 60 y I would probably continue parti- cipation without this Yes, this would convince me to continue No, I would not continue	rement pay began		

		under 6 y	re -	over 6	yrs Z	Total	_
46.				incenti	ve for	you to	
	voluntarily continue participation	n in a NG	unit?				
	Increased drill pay	691 (42)	241	(26)	932 (
	Shorter training hours	94 (6)	16	(2)	110 (4)
	Promotion when eligible	104 (6)	121	(13)	225 (9)
	Increased retirement benefits	49 (3)	214	(23)	263 (10)
	A reenlistment bonus program	134 (8)	109	(11)	243 (9)
	Better training equipment	21 (1)		(2)	36 (1)
	Less annual active duty for trn	g 143 (9)	11	(1)	154 (6)
	Improved fringe benefits (excharante) privileges, life insurance,	nge					
	survival benefita)	151 (9)	130	(14)	281 (10)
	Increase my awareness of the	-3- (-,		(- ')		,
	importance of Guard duties	9 (1)	7	(1)	16 (1)
	Increase opportunities for civil	-	-/	-	\ -/	(-,
	skill training	33 (2)	7	(1)	40 (2)
	More realistic and useful train:	•			(3)	102 (
	Free tuition at state supported		~,		(-,	202 (~,
	schools	139 (8)	28	(3)	167 (7)
							
47.	What would be your second choice t						
	Increased drill pay	375 ((17)	525 (
	Shorter trng hours	190 (12)		(3)	218 (9
	Promotion when aligible	152 (10)	99	(11)	251 (10)
	Increased retirement benefits	83 (5)	198	(27)	281 (11)
	A reenlistment bonus program	226 (14)	156	(17)	382 (15)
	Better training equipment	31 (2)	14	(1)	45 (2)
	Less annual active duty for trng	98 (6)	18	(2)	116 (5)
	Improved fringe benefits (exchar privileges, life insurance,	ige					
	medical benefits)	163 (10)	145	(16)	308 (12)
	Increase my awareness of the	(.	,				/
	importance of Gurd Duties	18 (1)	5	(.5)	23 (1)
	Increased opportunities for civi		-,	•	,,	\	-,
	skill training	42 (3)	17	(2)	59 (2)
	More realistic and useful trng	82 ((4)	119 (
	Free tuition at state supported	(,	•	• • •	\	-,
	schools	132 (8)	42	(5)	174 (7)
		1592		\$05		2501	

APPENDIX B

NORTH CAROLINA SURVEY AND COVER LETTER

STATE OF NORTH CAROLINA DEPARTMENT OF MILITARY AND VETERALS AFFAIRS DIVISION OF THE NATIONAL GUARD OFFICE OF THE ADJUTANT GENERAL

S-5 May 1975

NCAFING-CEP

24 April 1975

SUBJECT: Recruiting and Retention Survey

You have been selected at random to receive a survey prepared by the NCRG Recruiting and Retention Office. Based on your input and that of others, we hope to develop programs that Guardsmen really need and want. You are under no obligation to respond, however, what you tell us through this survey will directly affect the kinds of decisions that are made which can improve the Guard.

Answers to the survey will be considered on 5 May 1975. While we realize that this is a short suspense, the urgency of certain decisions require us to set that date.

CPT, MI, BCATCHO

Thank you for your consideration.

Bi

1.	How long h	nave you served in the NG?
	6 months	or less
	6 months -	· 1 year
	1 - 2 year	*S
	2 - 3 year	
	3 - 4 year	'6
	4 - 5 year	'S
	5 - 6 year	
	6 - 10 yes	
	10 - 20 yea	
	More than	20 years
2.	How 11d yo	ou first enter military service?
	My initial	entry was into the active service and I
	(a)	Enlisted for service in the regular force
	(6)	Was involuntarily inducted (drafted)
		thru Selective Service
	(c)	Volunteered for induction (saked to be drafted)
	(a) <u> </u>	Enlisted through an officer commissioning
		program.
	My initial	entry was into the National Guard and I
	(a)	Enlisted under a program requiring only
		active duty for training
	(b) <u> </u>	Enlisted in the reserve with a 2-year
		active duty commitment
	(c)	Enlisted without any active duty
		commitment at all
	(4)	Was commissioned after completing
	(e)	ROTC program Was commissioned with no active
	(*)	duty commitment.
		ducy commitment.
3.	If you ent	ered the NG after separation from active duty, which of
the	following	best describes how you joined a unit?
		Does not apply to me
		I had a reserve obligation and voluntarily
		joined a MC unit
	-	I did not have a reserve obligation and I
		voluntarily joined a unit

4. What was the pr	rimary reason for your initial entry into the NG?
Tnwnli	untarily assigned from active forces
	arn a trade or skill that would be
	ble in civilian life
	d my choice of service rather than be drafted
	rve my country
	lfill my military obligation at a time of my
choice	
	tunity for advanced education, professional
traini	
	chance at officer's commission instead of being
drafte	· · · · · · · · · · · · · · · · · · ·
Drill	and training pay
Retire	ement benefits
For th	ne travel, excitement, new experience
	come more mature and self-reliant
. Other	important influence but none of the above
Yes, I Yes, I No. I No. I	definitely would have entered the service probably would not have entered the service probably would not have entered the service definitely would not have entered the service definitely would not have entered the service no idea what I would have done
6. What is the most in the NG?	t favorable aspect of your present active participation
Promot	ion opportunities
Pay and	d allowances
	ng opportunities
	ent of Guard duties
Dodd no.	
	ment benefits
Pride :	in Guard membership
· Pride	in Guard membership g that I play a part in the defense
Pride : Chowing	in Guard membership g that I play a part in the defense country
Pride : Chowing of my contract Persone	in Guard membership g that I play a part in the defense

7. What is the greatest disadvantage of continued drill participation in the Guard for you?
Possibility of call-up to active duty
Unproductive and boring drills
Unproductive and boring drills Conflict with civilian employment
Conflict with civilian employment Regulations and discipline of military life Too great an inconvenience on family and free time Insufficient pay
Too great an inconvenience on family and free time
Insufficient pay
Poor utilization of my skills
Poor utilization of my skills Poor promotion chances
Obsolete or inadequate training equipment
8. Below is a list of twelve incentives. Please rank them according to their importance to you when considering continued participation in the Guard.
Place a one (1) next to the most important, a two (2) next to second most
important, and so forth so that the least important incentive is number
twelve (12).
Increased drill pay
Fhorter training hours
Enorter training hours Promotion when eligible Increased retirement benefits A re-enlistment benus program
Increased retirement henefits
A re-enlistment benue program
Retter training aguingent
Better training equipment Less annual active duty for training
Improved fringe benefits (exchange privileges,
life insurance, medical benefits)
Incorps converted that for civilian abill training
Increase my awareness of the importance of Guard duties
More realistic and useful training
Free tuition at state supported schools
9. Which best describes efforts for encouraging you to continue in the NG?
My opportunities have been fully explained and
I have been encouraged to continue
I have been encouraged to continue
I have received some information about continuing and
I have been encouraged to continueI have not been encouraged
T DEAS DOL GERD SUCOFFEES
I have received no information

	No you plan to continue in the National Guard beyond your sent obligation?
	Yes No Undecided Not applicable
11.	Would you re-enlist and continue your service in the NG if
	There continues to be no re-enlistment beaus There was a re-enlistment beaus of \$50 per year There was a re-enlistment beaus of \$100 per year There was a re-enlistment beaus of \$200 per year There was a re-enlistment beaus of \$400 per year No, I would not continue
12.	If your future plans include additional college or vocational education, do you intend to remain in the MG?
	Do not plan additional education Flan to remain with unit assigned Would like to transfer to unit closer to educational institute Would be attending school out of state Currently attending school
13.	Would you attend further college or vocational courses if you were granted assistance from private or government sources?
	If 50% or more of tuition is paid If up to 50% of my tuition is paid If I receive free tuition in full Bo
14.	When your oblination expires, would you agree to continue in the Guard for two more years if the state paid for tuition and fees at a state school or an equal amount at a private school?
	I would probably continue participation without this Yes, this would convince me to continue No, I would not continue
15.	Would you be willing to stay in the Guard as long as you were to receive 50% of your college or vocational tuition sach segmenter from the state?
	DefinitelyPossibly

16.	If you were to receive 50% of your college or vocational tuition each semester, solely upon being an active member of the Guard, could you continue your education?
	' Definitely
	Possibly
	Not able to at this time
	Definitely not
17.	Costacles to attending further college or vocational training include:
	·Cost of tuition
	Room and board
	Family responsibility
	Not interested
	Do not want to leave present employment Lack entrance requirements
	Other (specify)
18.	When your present obligation expires, would you agree to continue in the EG if an appropriately reduced retirement pay began at 55 years of age rather than the present age of 60 years? I would probably continue participation without this Yes, this would convince me to continue Eo, I would not continue
19.	Are you planning to participate in the NG for 20 years to earn retirement benefits?
	Probably Uncertain Possibly, but very unlikely Definitely not
20.	Do you think you could get a part-time civilian job that would pay as much as you get for the same time in the MO?
	·Yes
	Don't Know

21.	In your civilian job have you ever been passed over or slowed in promotion, denied other benefits, or discharged because of your Guard membership or Guard training participation?
	No
	Yes, within the last 3 years
	Yes, but it has not happened within the last
22.	What is your civilian employer's leave policy for your Guard annual training duty?
	Permits 2 weeks extra vacation leave with pay
	Permits 2 weeks leave without pay
	Permits 2 weeks leave but only pays me the
	difference between my Guard and civilian pay
	Will not permit special leave without pay, must
	use my regular vacation leave
	Does not apply, I am self-employed or unemployed
23.	What is your present occupation?
	Common laborer
	Construction trade
	Faraing
	Accounting
	Retail sales
	Teaching or training
	Machanic
	Administrative, clerical
	Technical
	Covernment
	Transportation
	Tourisa
	Hining
	Other

24.	For	what occupation are you best trained?
		Common laborer Construction trade Farming Accounting Retail sales Teaching or training Mechanic Administrative, clerical Technical Government Transportation
		TourismMiningOther
25.		well do you feel your skills are being utilized in your present tary status?
		Very wellWellFairPoorlyVery poorly
26.	have	you attended any non-requested formal military schools?
		Yes, but did not graduate from any Yes, and graduated from at least one No
27.	Have	you taken any non-requested military correspondence courses?
	,	Yes, but did not pass any Yes, and passed at least one Yes, and presently in process No

APPENDIX C

ANALYSIS OF DATA, SOUTH DAKOTA SURVEY

QUESTION 17 (Corresponds to Q 14 on N. C. Survey):

Responses

	A	В	C	Total	×
Mon-Career	293 (536 . 25)	860 (781.3)	529 (369.85)	1682	65
Career	532 (288.75)	342 (420.7)	40 (199.15)	914	35
Total	825	1202	569	2596	

- I. Ho: There is no significant relationship between a Guardanan's career status and his willingness to extend his obligation in the Guard given tuition assistance.
- II. .05 level of Significance; 2 Degrees of Freedom; Chi-Square Test; Table Value of k = 5.99
- III. Reject Ho if computed 2 25.99

17.
$$\sum \frac{(0-\pi)^2}{\pi} = 110.34 + \dots + 110.34 + \dots + 110.34 + \dots + \dots$$

V. .: Reject Ho

QUESTION 18 (Journsponds to Q 12 on M.C. Survey):

Responses

	· A	B	C	D	Total	ĸ
Non-Career	876 (850.85)	589 (664.95)	121 (95.55)	73 (51.35)	1659	65
Career	433 (458.15)	434 (358.05)	26 (51.45)	6 (27.65)	699	35
Total	1309	1023	147	79	2558	

- I. H: There is no significant relationship between a Guardsman's career status and his intent to remain in the Guard given further schooling.
- II. .05 Level of Significance; 3 Degrees of Freedom; Chi-Square Test; Table Value of &4 = 7.82
- III. Raject Ho if computed 242 7.82

IV.
$$\sum \frac{(0-E)^2}{E} = 0.74 + 8.68 + 6.78 + 9.12 + 1.38 + 16.11 + 12.59 + 16.95$$

= 72.35

72.35 > 5.99

V. .: Reject N

QUESTION 19 (Corresponds to Q 13 on M. C. Survey):

Responess

	A	В	C	D	Total	×
Fon-Careor	422 (416.00)	199 (189,80)	520 (505.05)	548 (579•15)	1690	65
Career	219 (22 4. 00)	93 (102.20)	257 (271.95)	343 (311.85)	911	35
Total ·	640	292	777	891	2601	

- I. H: There is no significant relationship between a Guardeman's career status and his desire to attend further education given available funds.
- II. .05 Level of Significance; 3 Degrees of Freedom; Chi-Square Test; Table Value 2.4 = 7.82
- III. Reject No 1f computed ½ 7.82

IV.
$$\sum \frac{(0-8)^2}{8} = 0.09 + 0.45 + 0.44 + 1.68 + 0.16 + 0.83 + 0.82 + 3.11 = 7.57$$

7.57 < 7.82

V. .: Accept Ho

QUESTION 20 (Corresponds to Question 17 on N. C. Survey):

Responses

	A	3	C	D	E	7	Total	×
Non-Career	527 (475.15)	46 (37.05)	386 (44.60)	261 (244.40)	292 (434.8	43 5)(25.75)	1655	65
Carsor	204 (255.85)	11 (19.95)	298 (239.40)	115 (131.60)	277 (235.1)	12 5)(19 .25)	909	35
,	731	57	684	376	6 69	55	2564	

- I. H: There is no significant relationship between a Guardsman's career status and obstacles to further education.
- II. .05 Level of Significance; 5 Degrees of Freedom; Chi-Square Test; 11.07 = Table Value of F
- III. Reject H if computed $\mathcal{X} \stackrel{2}{\geq} 11.07$

IV.
$$\sum \frac{(0-7)^2}{8} = 5.66 + 2.16 + 7.72 + 1.28 + 4.22 + 1.47 + 10.51 + 4.02 + 14.34 + 23.76 = 51.38$$

51.38 > 11.07

Y. .: Reject Ho

QUESTION 21 (Corresponds to Q 8 on N. C. Survey):

Responses

	A	3	C	D	Total	*
Non-Career	297 (280.80)	454 (433.55)	379 (387.40)	550 (571.35)	1690	65
Carser	126 (151.20)	213 (233.45)	217 (203.6)	329 (307.65)	885	35
Total	432	667	57%	879	2565	

- I. H.: There is no significant relationship between a Consisson's carper status and his williamses to remain in the Count given half twition.
- II. .05 Level of Significance; 3 Degrees of Freedom; Chi-Square Test; Table Value of 2' = 7.82
- III. Reject No 1f computed 12 27.82

IV.
$$\sum \frac{(0-5)^2}{D} = 0.94 + 0.97 + 0.18 + 0.80 + 4.20 + 0.39 + 1.43 + 1.79$$

10.66 > 7.82

V. ; . Majoct H

QUESTION 22 (Corresponds to Q 13 on M. C. Survey):

Responces

	A	3	C	D	Total	*
Non-Career	361 (337•35)	654 (665.60)	366 (388.70)	290 (267 . 15)	1671	65
Career	158 (181,65)	370 (353 .40)	232 (209.30)	121 (143.85)	861	35
Total	519	1024	598	411	2552	

- I. He There is no significant relationship between a Cuardaman's carear status and his ability to continue his education gives half tuition.
- II. .05 Level of Significance: 3 Degrees of Freedom: Chi-Square Test; Table Value of Ti- 7.62
- III. Reject H_a if ocmputed X≥7.82

IV.
$$\sum \frac{(0-\pi)^2}{E} = 1.66 + 0.20 + 1.33 + 1.95 + 3.08 + 0.38 + 2.46 + 3.63$$

= 14.687

14.687 > 7.82

Y. .: Reject Ho

QUESTICH 25 (Corresponds to Q 15 on N. C. Survey):

Nesponass

	A	3	Q	D	Total	*
Non-Career	346 (390.00)	687 (670.80)	301 (338.65)	332 (255.75)	1667	65
Career	254 (210.00)	345 (361.20)	220 (182.35)	63 (138 . 25)	631	35
Total	600	1032	521	395	2549	<u> </u>

- I. Her There is no significant relationship between a Cuardenan's earser statue and his willingness to remain in the Guard gives free tuition.
- II. .05 Level of Significance: 3 Degrees of Freedom: Chi-Square Test: Table Value 24-7.82

III. Reject Ho if computed 227.82

IV.
$$\sum \frac{(0-8)^2}{8} = \frac{4.96 + 0.39 + 4.19 + 22.06 + 9.22 + 0.73 + 7.77 + 40.96}{90.28}$$

90.28 > 7.28

V. ∴Reject Ho

APTENDIX D CALCULATIONS NORTH CAROLINA SURVEY

QUESTION 8:

NUMERICAL RATING BY CAREER STATUS

	Non-Ca	T.ael		Career
x _i	×1	x_i^2		$x_2 x_1 x_2^2$
1	-6.03	36.36		1 -6.06 36.72
	-6.03	36.36		2 -5.06 25.60
3	-4.03	16.24		2 -5.06 25.60
3	-4.03	16.24		5 -2.06 4.24
3	-4.03	16.24		5 -2.06 4.24
3	4.03	16.24		5 -2.06 4.24
4	-3.03	9.18		7 -0.06 0.00
5	-2.03	4.12		7 -0.06 0.00
5	-2.03	4.12		8 0.94 0.88
5	-2.03	4.12		9 1.94 3.76
5	-2.03	4.12		9 1.94 3.76
5	-2.03	4.12		10 2.94 8.64
6	-1.03	1.06		10 2.94 8.64
6	-1.03	1.06		11 3.94 15.52
6	-1.03	1.06		11 3.94 15.52
6	-1.03	1.06	•	11 3.94 15.52
0	-1.03	1.06		113 172.88
13333455555666667778999	-0.03	0.00		→ ♥ = 113
7	-0.03	0.00		£x ₂ - 113
7	-0.03	0.00		16
0	0.97	0.94 3.88		n ₂ = 16
7	1.97 1.97	3.88		ī ₂ = 7.06
9	1.97	3.88		
10	2.97	8,82		£×,²− 172.63
10	2.97	8.82		
11	3.97	15.76		
12	4.97	24.70	I.	H .: There is no significant relationship
12	4.97	24.70	•	bëtween a Cuardeman's career status and his
12	4.97	24.70	•	ranking of a tuition assistance benefit.
12	4.97	24.70		
	4.97	24,70	II.	.05 Level of Significance; 2 Degrees of
12 232		333.06		Freedom: Fisher "t" Test: Table Yalus of
				t = 4.3027
IX ₁ -	232			n 4 - 4 4 4 4 4 4 4 4 4 4 4
-			III.	Reject Ho 1f computed t24.3027
n, "	33		T1	t _ t
			IA.	
X ₁ =	7.03			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2	222 06			$\sqrt{n_1 + n_2} \sim \sqrt{n_1} \qquad n_2$
≖×1 ^{-#}	333.06			47 6 6 ° 6
-	•			• 2,03 - 7,05
				$\frac{2.03 - 2.06}{\sqrt{333.65 + 173.69} \sqrt{\frac{1}{3} + \frac{1}{3}}}$
				V(33+10-2 A 71 + 15)
				1 22 2 1/22 20

V. : Accept Ho

NUMERICAL RATING BY ACE

x \$25				x≥25			
x ₁	* 1	x ₁ ²	x ₂	x ₂	x ₂ .		
	-6.42	41.22	1	-5.61	31.47		
1 3 4	4.42	19.54	ī	-5.61	31.47		
٢	4. 4.2	19.54	2	-4.61	21.25		
۶	-4.42	19.54 11.70	2	-4.61	21.25		
4	-3.42	11.70	3	-3.61	13.03		
5 5 5 6 6 6	-2.42	5.86 5.85	2 2 3 3 5 5 5	-3.61	13.03		
. ?	-2.42	5.00	Ś	-1.61	2.59		
2	-2.42	5.86	Ś	-1.61	2.59		
?	-2.42	5.86	Ś	-1.61	2.59		
9	-1.42	2.02 2.02	5	-1.61	2.59		
9	-1.42		ĺ.	-0.61	0.37		
9	-1.42	2.02		0.39	0.15		
0	-1.42	2.02	ż	0.39	0.15		
7	-0.42	0.18	7 7 8	1.39	1.93		
7	-0.42	0.18	9	1.39	5.71		
7	-0.42	0.18	ý.	2.39	5.71		
8	0.58	0.34	ý	2.39	5.71		
9	1.58	2.49	10	3.39	11.49		
9	1.58	2.49	10	3.39	11.49		
10	2.58	6.65	11	4.39	19.27		
10	2.58	6.65	11	4.39	19.27		
11	3.58	12.81	<u> </u>	4.39	19.27		
12	4.58	20.97		5.39	29-05		
12	4.58	20.97	12 152	,-,,	17.45 17.45		
12	4.58	20.97	• ,-		_,_,		
12	4.58	20.97	. .	149			
12	4.58	20,97	£ 1/2 =				
193		260.34	n ₂ =	23			
IX ₁ -	193		Ĩ ₂ =	6.61			
n ₁ -			£*2 ² -	271.43			
	7.42		_				
~ _~ . 2,	260.34						

NUMERICAL NATING BY AGE

	x≤		x≥36
x ₁	×1	x ₁ ²	x_2 x_2 x_2^2
11123333745555566666777899910	-5.80 -5.80 -5.80 -5.80 -7.80 -7.80 -7.80 -1.80 -1.80 -1.80 -1.80 -1.80 -0.80 -0.80 -0.19 0.19 0.19 2.19 2.19 2.19 2.19	2 33.71 33.71 23.10 14.47 14.47 14.47 7.87 7.26 3.26 3.26 3.26 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.6	2
10 10 11 12 12 12 12 12 12	3.19 3.19 4.19 5.19 5.19 5.19 5.19 5.19	10.20 10.20 17.59 21.78 21.78 21.78 21.78 21.78	0. Stati
T ₁ = 1	36 6.80	<i>,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•

- I. H_{01} There is no significant relationship between a Geardsman's age and his ranking of a tuition assistance benefit.
- II. .05 Level of Significance: 2 Degrees of Precion: Ficher "t" Tost; Table Value of t = 4.3027
- III. Reject No 1f computed t24.3027

17.
$$\frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\frac{\bar{x}_1^2 + \bar{y}_2 z_2^2 - \bar{x}_1}{\bar{x}_1 + \bar{x}_2 - 2}}} \sqrt{\frac{\bar{x}_1^2 + \bar{y}_2 z_2^2 - \bar{x}_2}{\bar{x}_1 + \bar{x}_2 - 2}}$$

$$\frac{7.52 - 6.61}{\sqrt{\frac{360.73 + 271.63}{26 + 23 - 2}} \sqrt{\frac{1}{1.3140.631}} \sqrt{\frac{0.61}{1.3140.631}} \sqrt{\frac{0.61}{0.9164}} - \frac{0.61}{0.95} - 0.6526$$

0.8526 4.7027

V. Accept Mo

HERESTCAL BATTESC BY LEVEL OF EDUCATEDS

	MAG	1115	æc	C	Total
	I 2 (1.63) (5.10)	(2.56)	1 (0.31)	19
Rating	11 2 (3.27	13	(5.71)	0 (0.82)	20
	111 4 (3.10	9 (9.69)	(5.43)	(0.73)	19
	Total 8	23	14	2	77

- I. Not There is no significant relationship between a Cappingan's level of education and his resting of a tuition accipiance benefit.
- II. .05 Level of Rignificance; 6 Degrees of Proceed; Chi-Square Tost; Table Value of X-12.57
- III. Reject Mg if computed 22 12.59

CHESTICA 12.

FUTURE PLANS BY CAREER STATUS

		Fon-Carser	Career	Total	
	No	20 (19.29)	7 (7.71)	27	
Responses	Yes	11 (12.85)	7 (5.14)	18	
.*	Currently Attending	4 (2.86)	0 (1.14)	•	
	Total	35	14	49	

- I. No: A significant relationship does not exist between a Cuardensa's carper status and his future educational plans.
- II. .05 Level of Significance; 2 Degrees of Freedom; Chi-Square Test; Table Yalue of X^4 = 5.99
- III. Reject Ma if computed X42 5.99

IV.
$$\sum \frac{(0-3)^2}{8} = 0.03 + 0.07 + 0.27 + 0.67 + 0.45 + 1.14 = 2.63$$

2.63 < 5.99

V. . accort IL

PUTER TATE BY ACE

		×4 25	12 26	Total
	ro .	18 (15.43)	(11.57)	27
Depones	768	6 (10.29)	12 (7.71)	13
	Carrently Attending	(2.29)	(1.71)	•
	Total	20	21	49

- I. No! There is no significant relationship between a Consissant's ago and his future educational place.
- II. .05 Level of Significance; 2 Degrees of Precion; Chi-Square Test; Table Value of X = 5.97

III. Reject Ho if computed k4≥ 5.99

IV.
$$\sum \frac{(0-k)^2}{k} = 0.43 + 0.57 + 1.79 + 2.39 + 1.28 + 1.71 = 6.17$$

8.17 > 5.99

Y. : Reject Ha

FUTURE FLANS BY EBUCATIONAL LIVEL

	Attending Total	(0.65) 	(2.12) 	(1.06)	(0.16)	
	Currently	0 ·	2	2	0	4
Responses	Yes	4 (2.94)	6 (9.55)	6 (4,78)	2 (0.73)	18
	No	4 (4.41)	18 (14.33)	5 (7.16)	0 (1.10)	27
		RHS	ek	E	C	Total

- I. Ho! No significant differentiation exists between a Coardeman's level of education and his future educational plans.
- II. .05 Level of Significance: 6 Degrees of Frondca; Chi-Square Test; Table Value of X = 12.59
- III. Reject H, if computed 12 12.59

IV.
$$\sum \frac{(0-3)^2}{8} = 0.04 + 0.94 + 0.65 + 1.10 + 0.38 + 1.32 + 0.31 + 2.21 + 0.65 + 0.01 + 0.83 + 0.16 = 8.60 8.60 \leq 12.59$$

V. Accept H

QUESTION 13:

ATTENDANCE IF GRANTED ASSISTANCE BY CAREER STATUS

		Non-Career	Career	Total
Responses	A	9 (7 , 6)	2 (3.4)	11
	В	4 (4.9)	3 (2.1)	7
	C	8 (9 . 0)	5 (4.0)	13
	D	13 (12.5)	(5.5)	18
	Tota	1 34	15	49

- I. Ho: There is no significant relationship between a Guardsman's career status and his desire to attend school given available funds.
- II. .05 Level of Significance; 3 Degrees of Freedom; Chi-Square Test; Table Value of X = 7.82
- III. Reject Ho if computed X42 7.82

IV.
$$\frac{(0-E)^2}{E} = 0.26 + 0.58 + 0.17 + 0.39 + 0.11 + 0.25 + 0.02 + 0.05 = 1.83$$

1.83 (7.82

V. Accept Ho

ATTENDANCE IF GRANTED ASSISTANCE BY ACE

		x <u>⊈</u> 25	x 2 26	Total
Responses	A	6 (6.1)	5 (4.9)	11
	В	4 (3.9)	3 (3.1)	7
	C	(7.2)	8 (5.8)	13
	D	12 (9.9)	6 (8.1)	18
	Total	27	22	49

- I. Ho: There is no significant relationship between a Guardsman's age and his desire to attend an educational institution, given available funds.
- II. .05 Level of Significance; 3 Degrees of Freedom; Chi-Square Test; Table value of K 7.82
- III. Reject Ha if computed value of 227.82
- IV. $\sum \frac{(0-3)^2}{8} = 0.00 + 0.00 + 0.00 + 0.00 + 0.67 + 0.83 + 0.45 + 0.54 = 2.49 = 2.49 < 7.82$
- Y. Accept H.

ATTENDANCE IF GRANTED ASSISTANCE BY LEVEL OF EDUCATION

	Tot	al B	27	12	2	49
	D	3 (2.9)	12 (9.9)	(4.4)	(0.8)	18
	C	(2.1)	7 (7.2)	(3.2)	(0.5)	13
Responses	B	(1.1)	(3 <u>.</u> 9)	(1.7)	(0.3)	7
	A	1 (1.8)	(6.1)	(2.7)	(0.4)	11
		MHS	нз	8C	C	Total

- I. H: There is no significant relationship between a Guardenan's level of education and his desire to attend school given available funds.
- II. .05 Level of Education; 9 Degrees of Freedom; Chi-Square Test; Table value of 2 16.92
- III. Reject Ho if computed 22 16.92

IV.
$$\sum \frac{(0-5)^2}{2} = 0.36 + 0.20 + 0.63 + 0.90 + 0.01 + 0.21 + 0.99 + 0.30 + 0.39 + 0.01 + 0.45 + 0.50 + 0.60 + 0.45 + 0.45 + 0.60 = 6.65$$

Y. .: Accept H

QUESTION 14:

EXTENSION OF OBLICATION BY CAMEER STATUS

	X	on-Carsor	Carser	Total
	A	8 (11.9)	8 (4.1)	16
Responses	B	15 (14,1)	(4.9)	19
	C	i2 (8.9)	(3.1)	12
	Total	35	12	47

- I. Ho! There is no significant relationship between a Chardenan's career status and his willingness to extend his service obligation, given tuition assistance.
- II. .05 Level of Dignificance; 2 Degrees of Precion; Chi-Square Test; Table Value of 14-5.99
- III. Reject No if computed 225.99

IV.
$$\sum \frac{(0-3)^2}{2} = 1.28 + 3.71 + 0.06 + 0.17 + 1.03 + 3.10 = 9.40$$

9.40>5.99

V. : Dajoot Ho

EXTENSION OF SERVICE COLICATION OF ASS

-		x á 25	x 2 25	Total
	A	6 (9•5)	10 (6.5)	15
No e pon so e	3	11 (11.3)	(7.7)	19
	C	(7.1)	(4.9)	12
	Tot	al 28	19	47

I. No: There is no significant relationship between a Canadaman's age and his villingness to extend his parvice obligation, given taities assistance.

II. .05 Level of Significance; 2 Degrees of Freedom; Chi-Square Test; Table Value of X = 5.99

III. Reject Ho if computed \$25.99

IV.
$$\sum \frac{(0-\pi)^2}{\pi} = 1.29 + 1.83 + 0.01 + 0.01 + 2.14 + 3.10 = 8.43$$

8.43 > 5.99

Y. : Reject Ho

EXTENSION OF SERVICE COLICATION BY LEVEL OF EDUCATION

		nhs	ВК	SC	C	Total
	A	4 (2.7)	7 (8.2)	4 (4.4)	1 (0.7)	16
Responses	B	3 (3.2)	8 (9.7)	? (5•3)	1 (0.8)	19
	C	(2.1)	(6.1)	(3.3)	0 (0.5)	12
	Tota	u 8	24	13	2	47

- I. Ho! There is no significant relationship between a Cuardeman's level of education and his willingness to extend his service obligation, given tuition assistance.
- II. .05 Level of Eignificance; 6 Degrees of Freeder; Chi-Ognare Test; Table Value of 2 12.59
- III. Reject Ho if computed k4212.59

IV.
$$\sum \frac{(0-3)^2}{8} = 0.63 + 0.18 + 0.04 + 0.13 + 0.01 + 0.30 + 0.55 + 0.05 + 0.58 + 1.38 + 0.51 + 0.50 = 4.05$$

4.66 < 12.59

V. Accept Ho

AFFECT OF HALF TUITION ON RETENTION BY CAPEER STATUS

	K	ion-Career	Carsor	Total
	A	7 (13.13)	11 (4.87)	. 18
Responses	B	19 (15.31)	2 (5.69)	21
	C	9 (6.56)	0 (2.45)	9
	Total	35	13	48

- I. Ho! There is no significant relationship between a Convictor's career status and his willingness to remain in the Chard gives half tuition.
- II. .05 Level of Significance; 2 Degrees of Precdom; Chi-Seware Test; Table Value of 2 5.99
- III. Reject No if computed 2 5.99

IV.
$$\sum \frac{(0-3)^2}{8} = 2.65 + 7.72 + 0.69 + 2.39 + 0.91 + 2.46 = 17.23$$

17.23 > 5.99

V. :: Reject M

AFFECT OF HALF TUITIGE OF RETERFACE RY AGE

		× & 25	×2 26	Potal
	A	4 (10.50)	14 (7.50)	18
Responses	B	15 (12 . 25)	6 (8.75)	21
	C	9 (5 .2 5)	0 (3.75)	9
	Tot	al 28	29	43

- I. No: There is no significant relationship between a Cuardeman's age and his willingness to resain in the Cuard given half taities.
- II. .05 Level of Eignificance: 2 Degrees of Procise: Chi-Symate Tost: Table Value of 2 5.99

III. Reject Ho if computed \$25.99

IV.
$$\sum \frac{(0-8)^2}{8}$$
 = 4.02 + 5.63 + 0.62 + 0.86 + 2.68 + 3.75 = 17.56
17.56 > 5.99

V. .: Reject Ho

AFFECT OF HALF TUITION ON RETENTION BY LEVEL OF EDUCATION

		ehk	HS	BC	C	Total
	A	(3.0)	? (9.38)	7 (4.87)	(0.75)	18
Responses	B	(3.50)	11 (10.94)	5 (5.68)	(0.68)	21
	C	1 (1.50)	7 (4.68)	1 (2.44)	0 (0.38)	9
	Tot	al 8	25	13	2	48

- I. No! There is no significant relationship between a Guardenan's level of education and his willingness to remain in the Guard given half tuition.
- II. .05 Level of Bignificance; 6 Degrees of Freedom; Chi-Square Test; Table Value of X 12.59
- III. Reject No if computed 2212.59

IV.
$$\sum \frac{(0-8)^2}{2}$$
 = 0.00 + 0.60 + 0.93 + 0.08 + 0.07 + 0.00 + 0.08 + 0.12 + 0.17 + 1.15 + 0.85 + 0.38 = 4.43

4.43 (12.59

V. .: Accept No

QUESTION 16.

CONTINUANCE OF EDUCATION BY CAREER STATUS

	N	on-Career	Career	Total
	A	3 (5•79)	5 (2.21)	8
Responses	B	16 (13.02)	2 (4.98)	18
	C	11 (12.30)	6 (4.70)	. 17
	D	4 (2.89)	(1.11)	4
	Total	34	13	47

- I. Ho: There is no significant relationship between a Guardaman's career status and his ability to continue his education, given half tuition.
- II. .05 Level of Significance; 3 Degrees of Freedom; Chi-Square Test; Table Value of X = 7.82
- III. Reject Ho if computed 227.32

IV.
$$\sum \frac{(0-8)^2}{8} = 1.34 + 3.52 + 0.68 + 1.78 + 0.14 + 0.36 + 0.43 + 1.11 = 9.36$$

9.36 > 7.62

V. ∴Reject Ho

CONTINUANCE OF EDUCATION BY AGE

	(2.30)	(1.70)	
		_	4
	(9.77)	6 (7 . 23)	17
Responses	B 11 (10.34)	7 (7.65)	18
	A 1 (4.60)	? (3.40)	8
	× 4 25	x 2 26	Total

D 13

- I. Ho! There is no significant relationship between a Cuardanan's age and his ability to continue his education, given half teition.
- II. .05 Level of Significance; 3 Degrees of Procedum; Chi-Square Test; Table Value of K- 7.82
- III. Reject Ha if computed \$27.82

IV.
$$\sum \frac{(0-8)^2}{5} = 2.82 + 3.81 + 0.05 + 0.06 + 0.15 + 0.21 + 1.26 + 1,70 = 10.05$$

10.05 > 7.82

Y. .. Rejeat H

CONTINUANCE OF EDUCATION BY EDUCATIONAL IEVEL

		HHS	HS	8 C	C	Total
	A	0 (1.19)	3 (4.26)	4 (2.21).	1 (0.35)	8
Rosponsos	3) (2.68)	8 (9.57)	7 (4.98)	0 (0.77)	18
,	C	4 (2.53)	10 (9.64)	2 (4.70)	1 (0.72)	37
	D	(0.60)	4 (2.13)	0 (1.10)	0 (0.17)	4
•	To	tel 7	25	13	2	47

- I. H: There is no significant relationship between a Guarizma's level of education and his ability to continue his education, given half twitien.
- II. .05 Level of Significance; 9 Degrees of Process; Chi-Equare Test; Table Value of X = 16.92
- III. Reject Mg if computed 24≥16.92

IV.
$$\sum \frac{(0-3)^2}{2} = 1.19 + 0.37 + 1.45 + 1.28 + 0.04 + 0.25 + 0.03 + 0.79 + 0.65 + 0.10 + 1.55 + 0.11 + 0.60 + 1.64 + 1.10 + 0.17 = 12.30$$

12.30 < 16.92

Y. Accept H

QUISTION 17:

OBSTACLES TO ATTENDANCE BY CAPTURE STATUS

		Non-Career	Career	Total
	A	4 (4.3)	2 (1.7)	6
	3	0	0	0
Responde	C	14 (15.8)	8 (6.2)	22
	D	4 (2.9)	0 (1.1)	4
	E	7 (7.2)	3 (2.8)	10
	r	(0.7)	0 (0.3)	1
	G) (2.2)	° (0.8)	3
	Total	33	13	45

- I. No: There is no significant relationship between a Chardenna's career status and obstacles to attendance in school.
- II. .05 Level of Significance; 6 Degrees of Freedom; Chi-Square Tost; Table Value of X 12.59
- III. Reject No 1f computed X 1212.59

IV.
$$\sum \frac{(0-\pi)^2}{8} = 0.02 + 0.05 + 0.21 + 0.52 + 0.42 + 1.1 + 0.00 + 0.01 + 0.13 + 0.30 + 0.29 + 0.3 = 3.05$$

3.85 < 12.59

V. .: Accept N.

OBSTACLES TO ATTENDANCE BY ACE

	A	x 25 2 (3.39) 0	z 26 h (2.61) 0	Total 6
Responses	c	12 (12.4)	10 (9.6)	22
	מ	(2.3)	(1.7)	•
	E	6 (5.7)	(4.3)	10
	r	(0.6)	(0.4)	1
	G	(1.7)	(1.3)	3
	Total 26		20	166

- I. Ho: There is no significant relationship between a Characteria's age and cabatacles to attendance in school.
- 11. .05 Level of Significance; 6 Degrees of Presion; Chi-Equare Test;
 Table Value of A = 12.59
- III. Reject Ro If computed X 212.59
- IV. $\sum \frac{(0-3)^2}{2} = 0.57 + 0.74 + 0.01 + 0.02 + 1.26 + 1.7 + 0.63 + 0.02 + 0.27 + 0.40 + 0.29 + 0.33 = 5.63$

5.68 (12.59

v. Accept No

OBSTACLES TO ATTENDANCE BY LEVEL OF EBUCATION

		KHS	кз	8C	C	Total
	A	1 (0.91)	1 (3.26)	3 (1.57)	1 (0.25)	6
	3	0	0	0	0	. 0
Responses	C	4 (3·35)	13 (11.55)	5 (3.7*)	0 (0.58)	23
	D	0 (0.61)	4 (2,17)	0 (1.04)	0 (0.17)	4
	2	1 (1.52)	7 (5.43)	2 (2.61)	0 (0.43)	10
	•	(0.15)	0 (0.54)	0 (0.26)	0 (0.0\$)	1
	C	0 (0 ₂ 巻分)	0 (1,53)	2 (2,73)	(0.13)	3
		tal 7	25	12	2	16

- I. No: There is no eignificant relationship between a Considence to level of education and obstables to attendance in school.
- II. .05 Level of Cignificance: 18 Degrees of Freedam: Chi-Square Test: Table Value of 24-29.87
- III. Dejoct N 11 computed 2 2 23.87

17.
$$\sum \frac{(0-8)^2}{8}$$
 = 0.01 + 1.57 + 1.30 + 2.11 + 0.13 + 0.67 + 0.10 + 0.96 + 0.61 + 1.54 + 1.64 + 0.17 + 0.18 + 0.53 + 0.14 + 0.43 + 4.62 + 0.54 + 0.65 + 0.64 + 0.65 + 0.55 + 5.62 = 24.96

24.96 4 28.87

V. .: Assept H

FILMED 5-24-76 MTA